

Task 2.3

Quarterly Status Report #5

For the Project entitled

Lamb Island Dairy Remediation

SFWMD Contract No. C-13410

Submitted by

HSA Engineers & Scientists

HSA Project No. 8005-7106-00
November 2005

Introduction

This is the fifth of the six required quarterly status reports for the Lamb Island Dairy Remediation project. The Contract requires quarterly status reports beginning concurrently with the construction of the remedial alternatives. A Contract Amendment (Amendment No. 1 to Contract No. C-13410) was entered into on March 21, 2004, which set in-place the design conditions included in the Final Detailed Design and Specifications Package. The construction of the remedial alternative is complete and water quality monitoring activities have begun. This report covers the period of April 1, 2005 to June 31, 2005. The primary activities completed during this reporting period have been the scheduled quarterly sampling trip, and three rainfall driven sampling events,.

Site Condition

The Lamb Island Dairy site is in good general condition. Grass growth in all areas has been tremendous. All major constructed features remain in good condition. Three rain events (rainfall greater than 0.5 inches) has occurred during this period. Runoff has been observed leaving the site on the June 8th and June 28th, 2005 sampling events from the SW-5 sampling location.

Quarterly Sampling Event

On May 16, 2005 the third quarterly scheduled sampling event was completed. **Figure 1** shows the location of the six surface water sampling location and the one ground water monitoring location just south of Pond 3. **Table 1** shows water quality results for all sampling locations for the current and previous sampling events. **Appendix A** contains laboratory results and sample chain of custody. **Appendix B** contains field sampling notes. All sampling was conducted in accordance with FDEP Quality Assurance Rule, Chapter 62-160.210 F.A.C., the associated FDEP SOPs, and HSA's Quality Assurance Manual. HSA designated US Biosystems as the lab water quality samples would be sent to in Task 2.2 Final Performance Monitoring Plan. Jupiter Labs and Palm Beach Environmental Labs were used in some instances in order to improve minority participation and because they were listed on the HSA team in our proposal for this project. Both are NELAC certified labs suitable for low range phosphorus testing.

Date	SW-1		SW-2		SW-3		SW-4		SW-5		SW-6		GW-1	
	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Ortho-P	TP	Aluminum
11/18/04*	2.1	2	1.6	1.4	2.5	2.4	4.4	4.2	--	--	0.82	0.62	0.085	3.1
2/18/05*	1.8	1.8	0.81	0.68	1.6	1.6	--	--	--	--	0.79	0.51	BDL	3.3
03/04/05	1.2	1.3	0.94	0.61	1.4	1.3	--	--	--	--	--	--	--	--
5/16/05*	1.5	1.3	--	--	1.7	1.3	--	--	--	--	0.42	0.38	BDL	5.3
06/08/05	3.7	2.7	1.4	BDL	1.9	BDL	--	--	2.2 [^]	1.5 [^]	--	--	--	--
06/15/05	3.1	2.8	1.3	0.96	4.5	1.8	--	--	3	2.7	--	--	--	--
06/28/05	3.5	3.5	1.2	0.93	1.7	1.3	--	--	3 [^]	2.9 [^]	--	--	--	--

Notes: All values shown in mg/L

BDL=Below Laboratory Detection Limit

* Quarterly Sampling Events

[^] Flow over boards at this location

Sampling location SW-1 was analyzed for Total Phosphorus(TP) and Ortho-Phosphorus(OPO) analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.5 parts per million(ppm) and 1.3 ppm, respectively.

Sampling location SW-2 was not sampled due to insufficient water at the sampling location.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.7 ppm and 1.3 ppm, respectively.

Sampling location SW-4 and SW-5 were completely dry at the time of sampling so no sample was collected. A sample for SW-4 had been collected from the wetland directly south in the previous quarters but conditions at that location for this event were not conducive for sampling.

Sampling location SW-6 is located in Pond 3 and was collected for TP and OPO analysis. The sample was collected on the north side of the pond approximately midway between the east and west end of the pond. Results for TP and OPO were 0.42 ppm and 0.38 ppm, respectively.

Sampling location GW-1 is a shallow groundwater well located near the south side of Pond 3. This well was installed to assess the impact of Alum treated Pond 3 water to the regional ground water as well as groundwater TP concentration. The well has total depth of 8.8 feet from the top of casing and at the time of sampling the depth to water was 5.7 feet. Results for Aluminum analysis of the ground water was 5.3 ppm and TP results were BDL.

June 8th, 2005 Rain Driven Sampling Event

On June 8, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. A significant amount of rain had fallen and the all ditches and wetland areas had water in them. **Figure 2** shows a view of the created wetland area on the south side of the property. **Figure 3** is a view of the HIA area ditch and berm looking east. Flow off site was observed at the SW-5 sampling location only. Only sampling location SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 3.7 ppm and 2.7 ppm, respectively.

Sampling location SW-2 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.4 ppm and Below Detection Limit(BDL), respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.9 ppm and BDL, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was flow through this sampling location and a sample was obtained on the downstream side of the culvert, in the flow over the boards. Results for TP and OPO were 2.2 ppm and 1.5 ppm, respectively.

June 15th, 2005 Rain Driven Sampling Event

On June 15, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. No flow off site was observed at any sampling locations. Only sampling location SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 3.1 ppm and 2.8 ppm, respectively.

Sampling location SW-2 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.3 ppm and 0.96 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 4.5 ppm and 1.8 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained on the upstream side of the culvert, in ponded water. Results for TP and OPO were 3.0 ppm and 2.7 ppm, respectively.

June 28th, 2005 Rain Driven Sampling Event

On June 28, 2005 sampling was completed on site due to rainfall greater than 0.5 inches within the basin in the last 48 hours. Flow off site was observed at the SW-5 sampling location only. Only sampling location SW-4 was not sampled because it was inaccessible. GW-1 and SW-6 were not sampled because they are only monitored on a quarterly basis. **Table 1** shows sampling results for all locations.

Sampling location SW-1 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 3.5 ppm and 3.5 ppm, respectively.

Sampling location SW-2 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.2 ppm and 0.93 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.7 ppm and 1.3 ppm, respectively.

Sampling location SW-5 was collected for TP and OPO analysis. At the time of sampling there was flow through this sampling location and a sample was obtained on the downstream side of the culvert, in the flow over the boards. Results for TP and OPO were 3.0 ppm and 2.9 ppm, respectively.

Construction Activities

All major construction is complete and no construction occurred during this period.

Sixth Quarter Activities

Task remaining to be completed next quarter are:

- Quarterly water quality sampling trip.
- Water quality sampling after significant rain events.

Invoicing Status Sheet

SFWMD Contract No. C-13410		Q-5 Report		4/1/05 - 6/31/05	
TASKS / DELIVERABLES DESCRIPTION		Task Budget	Invoiced this Period	Invoiced to Date	Retainage Not Invoiced
TASK 1 - Detailed Design for Selected Alternatives					
1.1 Project kick-off meeting		\$1,500	\$0	\$1,500	
1.2 Draft Preliminary 30% Design Package		\$21,223	\$0	\$21,223	
1.3 Final Preliminary 30% Design Package		\$3,975	\$0	\$3,975	
1.4 Detailed 90% Design Package		\$7,603	\$0	\$7,603	
1.5 Final Detailed Design and Specifications Package		\$4,227	\$0	\$4,227	
1.6 Construction Completion		\$282,493	\$36,495	\$282,493	
TASK 2 - Project Implementation and Performance Monitoring					
2.1 Draft Performance Monitoring Plan		\$4,507	\$0	\$4,507	
2.2a Final Performance Monitoring Plan		\$2,100	\$0	\$2,100	
2.2b One (1) Year of Monitoring (15 events)		\$10,033	\$0	\$0	
2.3 Quarterly Reports		\$17,770	\$0	\$0	
2.4 Quarterly Site Meetings		\$4,060	\$0	\$0	
TASK 3 - Project Performance Evaluation					
3.1 Draft O&M Plan		\$3,985	\$0	\$0	
3.2 Final O&M Plan		\$1,933	\$0	\$0	
3.3 Draft Final Report		\$11,715	\$0	\$0	
3.4 Final Project Report		\$4,856	\$0	\$0	
Totals		\$381,980	\$36,495	\$327,628	

MWBE Participation:

Amount to date = \$ 41,611.40
 MWBE Goal = 7.0%
 Target Project Goal = \$ 26,738.60

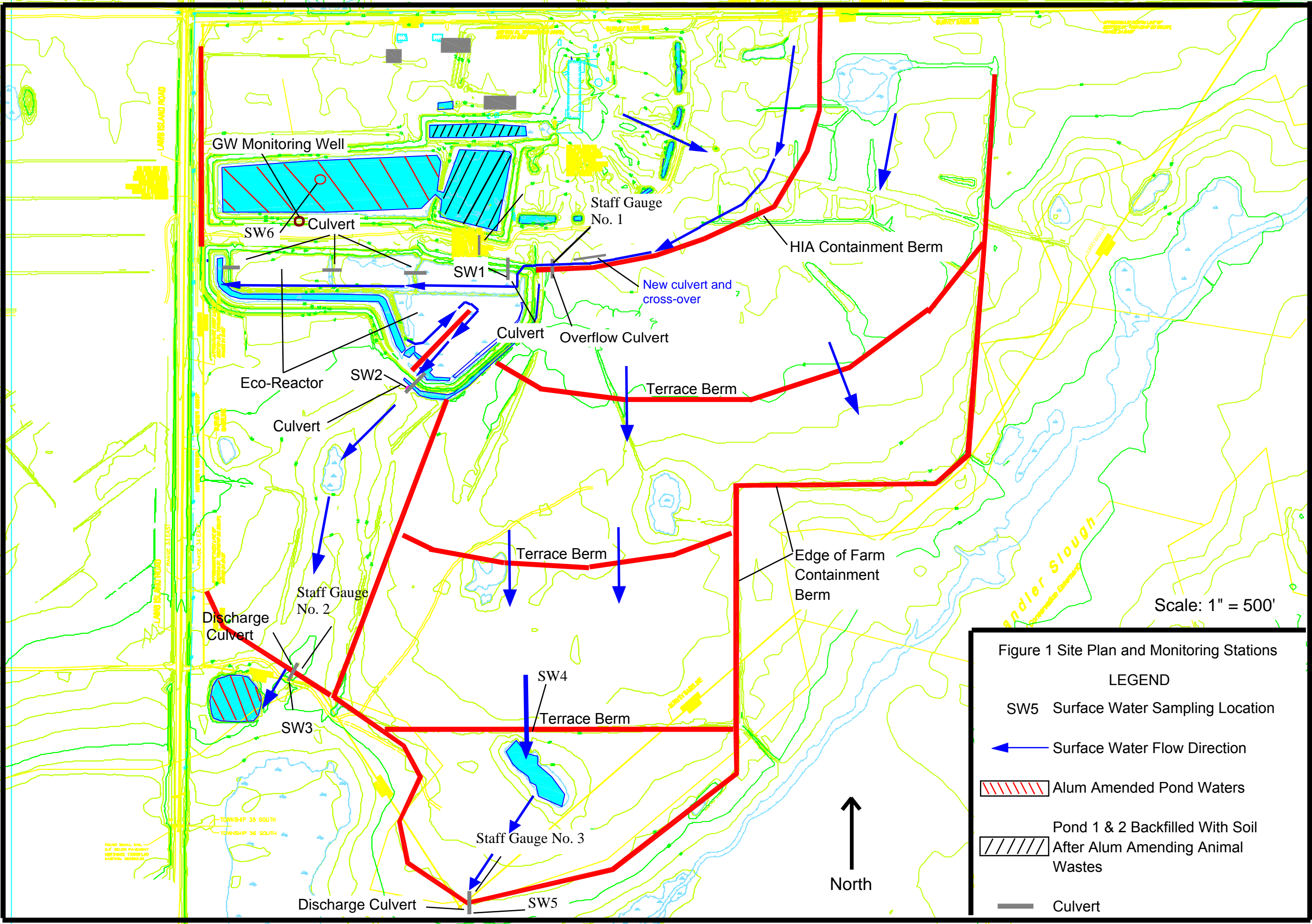


Figure 1 Site Plan and Monitoring Stations

LEGEND

- SW5 Surface Water Sampling Location
- Surface Water Flow Direction
- Alum Amended Pond Waters
- Pond 1 & 2 Backfilled With Soil
- After Alum Amending Animal Wastes
- Culvert



Figure 2. View of created wetland area on south side of site looking towards SW-5



Figure 3. View looking East of HIA ditch and berm.

APPENDIX A



Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

Wednesday, June 01, 2005

Terrance Horan
HSA Engineers & Scientists
1486-A Skees Rd
West Palm Beach, FL 33411

RE: Project: 513497
Project ID: W642200500 Lamb Island

Dear Terrance Horan:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, May 17, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archieving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

Enclosures

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REPORT OF LABORATORY ANALYSIS

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Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

SAMPLE SUMMARY

Project: 513497

Project ID: W642200500 Lamb Island

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513497001	SW-3	Aqueous Liquid	5/16/2005 11:26	5/17/2005 12:04
513497002	EB	Aqueous Liquid	5/16/2005 11:33	5/17/2005 12:04
513497003	SW-1	Aqueous Liquid	5/16/2005 12:04	5/17/2005 12:04
513497004	SW-6	Aqueous Liquid	5/16/2005 12:30	5/17/2005 12:04
513497005	SW-6 DUP	Aqueous Liquid	5/16/2005 12:30	5/17/2005 12:04
513497006	GW-1	Aqueous Liquid	5/16/2005 13:00	5/17/2005 12:04

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SAMPLE ANALYTE COUNT

Project: 513497

Project ID: W642200500 Lamb Island

Lab ID	Sample ID	Method	Analytes Reported
513497001	SW-3	EPA 365.2	2
513497002	EB	EPA 365.2	2
513497003	SW-1	EPA 365.2	2
513497004	SW-6	EPA 365.2	2
513497005	SW-6 DUP	EPA 365.2	2
513497006	GW-1	EPA 200.8 (Total)	1
		EPA 365.2	1

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ANALYTICAL RESULTS

Project: 513497

Project ID: W642200500 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513497001	Date Collected:	5/16/2005 11:26	Matrix:	Aqueous Liquid
Sample ID:	SW-3	Date Received:	5/17/2005 12:04		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
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General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.7	mg/L	0.10	1			5/19/2005	ESC	7723-14-0		
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Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.3	mg/L	0.12	5			5/26/2005	ESC			
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Date: 06/01/2005

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ANALYTICAL RESULTS

Project: 513497

Project ID: W642200500 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513497002	Date Collected:	5/16/2005 11:33	Matrix:	Aqueous Liquid
Sample ID:	EB	Date Received:	5/17/2005 12:04		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.6 mg/L	0.10	1	5/19/2005	ESC	7723-14-0
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Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	U mg/L	0.025	1	5/18/2005	ESC
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Date: 06/01/2005

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**ANALYTICAL RESULTS**

Project: 513497

Project ID: W642200500 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513497003	Date Collected:	5/16/2005 12:04	Matrix:	Aqueous Liquid
Sample ID:	SW-1	Date Received:	5/17/2005 12:04		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
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General Chemistry**Phosphorus by EPA 365.2 [REF] (W) List**

Phosphorus	1.5 mg/L	0.10	1	5/19/2005	ESC	7723-14-0
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Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.3 mg/L	0.12	5	5/26/2005	ESC
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ANALYTICAL RESULTS

Project: 513497

Project ID: W642200500 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513497004	Date Collected:	5/16/2005 12:30	Matrix:	Aqueous Liquid
Sample ID:	SW-6	Date Received:	5/17/2005 12:04		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
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General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	0.42	mg/L	0.10	1			5/19/2005	ESC	7723-14-0		
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Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	0.38	mg/L	0.025	1			5/18/2005	ESC			
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Date: 06/01/2005

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ANALYTICAL RESULTS

Project: 513497

Project ID: W642200500 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513497005	Date Collected:	5/16/2005 12:30	Matrix:	Aqueous Liquid
Sample ID:	SW-6 DUP	Date Received:	5/17/2005 12:04		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
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General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	0.44	mg/L	0.10	1			5/19/2005	ESC	7723-14-0		
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Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	0.38	mg/L	0.025	1			5/18/2005	ESC			
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Date: 06/01/2005

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ANALYTICAL RESULTS

Project: 513497

Project ID: W642200500 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513497006	Date Collected:	5/16/2005 13:00	Matrix:	Aqueous Liquid
Sample ID:	GW-1	Date Received:	5/17/2005 12:04		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	U mg/L	0.10	1		5/19/2005	ESC	7723-14-0
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Metals

EPA 200.8 Metals (W) List

Aluminum	5.3 mg/L	0.020	1	5/17/2005	ZS	5/17/2005	ZS	7429-90-5
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Date: 06/01/2005

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Tuesday, June 28, 2005

Terrance Horan
HSA Engineers & Scientists
1486-A Skees Rd
West Palm Beach, FL 33411

RE: Project: 513607
Project ID: Lamb Island Dairy

Dear Terrance Horan:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, June 08, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archieving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

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Phone: (561)575-0030

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SAMPLE SUMMARY

Project: 513607

Project ID: Lamb Island Dairy

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513607001	SW-3	Aqueous Liquid	6/8/2005 11:38	6/8/2005 14:46
513607002	SW-5	Aqueous Liquid	6/8/2005 12:05	6/8/2005 14:46
513607003	SW-5(DUP)	Aqueous Liquid	6/8/2005 12:05	6/8/2005 14:46
513607004	SW-1	Aqueous Liquid	6/8/2005 12:30	6/8/2005 14:46
513607005	SW-2	Aqueous Liquid	6/8/2005 13:00	6/8/2005 14:46

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SAMPLE ANALYTE COUNT

Project: 513607

Project ID: Lamb Island Dairy

Lab ID	Sample ID	Method	Analytes Reported
513607001	SW-3	EPA 365.2	2
513607002	SW-5	EPA 365.2	2
513607003	SW-5(DUP)	EPA 365.2	2
513607004	SW-1	EPA 365.2	2
513607005	SW-2	EPA 365.2	2

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ANALYTICAL RESULTS

Project: 513607

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID:	513607001	Date Collected:	6/8/2005 11:38	Matrix:	Aqueous Liquid
Sample ID:	SW-3	Date Received:	6/8/2005 14:46		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.9 mg/L	0.10	1	6/27/2005	ESC	7723-14-0
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Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	U mg/L	0.62	25	6/10/2005	ESC
-----------------	--------	------	----	-----------	-----

Date: 06/28/2005

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ANALYTICAL RESULTS

Project: 513607

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID:	513607002	Date Collected:	6/8/2005 12:05	Matrix:	Aqueous Liquid
Sample ID:	SW-5	Date Received:	6/8/2005 14:46		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	2.2 mg/L	0.10	1	6/27/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.5 mg/L	0.62	25	6/10/2005	ESC
-----------------	----------	------	----	-----------	-----

Date: 06/28/2005

Page 5 of 8

REPORT OF LABORATORY ANALYSIS

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Jupiter Environmental Laboratories, Inc.

150 S. Old Dixie Highway

Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

ANALYTICAL RESULTS

Project: 513607

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID:	513607003	Date Collected:	6/8/2005 12:05	Matrix:	Aqueous Liquid
Sample ID:	SW-5(DUP)	Date Received:	6/8/2005 14:46		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	2.1	mg/L	0.10	1			6/27/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.6	mg/L	0.62	25			6/10/2005	ESC			
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Date: 06/28/2005

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ANALYTICAL RESULTS

Project: 513607

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID:	513607004	Date Collected:	6/8/2005 12:30	Matrix:	Aqueous Liquid
Sample ID:	SW-1	Date Received:	6/8/2005 14:46		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	3.7	mg/L	0.10	1			6/27/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.7	mg/L	0.62	25			6/10/2005	ESC			
-----------------	-----	------	------	----	--	--	-----------	-----	--	--	--

Date: 06/28/2005

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ANALYTICAL RESULTS

Project: 513607

Project ID: Lamb Island Dairy

Solid results are reported on a dry weight basis.

Lab ID:	513607005	Date Collected:	6/8/2005 13:00	Matrix:	Aqueous Liquid
Sample ID:	SW-2	Date Received:	6/8/2005 14:46		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.4	mg/L	0.10	1			6/27/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	U	mg/L	0.62	25			6/10/2005	ESC			
-----------------	---	------	------	----	--	--	-----------	-----	--	--	--

Date: 06/28/2005

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Fax: (561)575-4118

Tuesday, July 05, 2005

Terrance Horan
HSA Engineers & Scientists
1486-A Skees Rd
West Palm Beach, FL 33411

RE: Project: 513661
Project ID: W6422005 Lamb Island

Dear Terrance Horan:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, June 16, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

Samples are disposed of after 30 days of their receipt by the laboratory unless archieving is requested in writing. The laboratory maintains the right to charge storage fees for archived samples.

Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

Enclosures

Page 1 of 8

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Jupiter Environmental Laboratories, Inc.

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Jupiter, FL 33458

Phone: (561)575-0030

Fax: (561)575-4118

SAMPLE SUMMARY

Project: 513661

Project ID: W6422005 Lamb Island

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513661001	sw-3	Aqueous Liquid	6/15/2005 10:30	6/16/2005 16:26
513661002	sw-3 (dup)	Aqueous Liquid	6/15/2005 10:30	6/16/2005 16:26
513661003	SW-5	Aqueous Liquid	6/15/2005 11:07	6/16/2005 16:26
513661004	SW-1	Aqueous Liquid	6/15/2005 11:30	6/16/2005 16:26
513661005	SW-2	Aqueous Liquid	6/15/2005 11:58	6/16/2005 16:26

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Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Project: 513661

Project ID: W6422005 Lamb Island

Lab ID	Sample ID	Method	Analytes Reported
513661001	sw-3	EPA 365.2	2
513661002	sw-3 (dup)	EPA 365.2	2
513661003	SW-5	EPA 365.2	2
513661004	SW-1	EPA 365.2	2
513661005	SW-2	EPA 365.2	2

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661001	Date Collected:	6/15/2005 10:30	Matrix:	Aqueous Liquid
Sample ID:	sw-3	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	4.5 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.8 mg/L	0.12	5	6/17/2005	ESC
-----------------	----------	------	---	-----------	-----

Date: 07/05/2005

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Fax: (561)575-4118

ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661002	Date Collected:	6/15/2005 10:30	Matrix:	Aqueous Liquid
Sample ID:	sw-3 (dup)	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.4	mg/L	0.10	1			6/30/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.8	mg/L	0.12	5			6/17/2005	ESC			
-----------------	-----	------	------	---	--	--	-----------	-----	--	--	--

Date: 07/05/2005

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661003	Date Collected:	6/15/2005 11:07	Matrix:	Aqueous Liquid
Sample ID:	SW-5	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	3.0 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.7 mg/L	0.12	5	6/17/2005	ESC
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Date: 07/05/2005

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661004	Date Collected:	6/15/2005 11:30	Matrix:	Aqueous Liquid
Sample ID:	SW-1	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	3.1 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.8 mg/L	0.12	5	6/17/2005	ESC
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Date: 07/05/2005

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661005	Date Collected:	6/15/2005 11:58	Matrix:	Aqueous Liquid
Sample ID:	SW-2	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.3 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	0.96 mg/L	0.12	5	6/17/2005	ESC
-----------------	-----------	------	---	-----------	-----

Date: 07/05/2005

Page 8 of 8

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Phone: (561)575-0030

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Thursday, July 14, 2005

Terrance Horan
HSA Engineers & Scientists
1486-A Skees Rd
West Palm Beach, FL 33411

RE: Project: 513661
Project ID: W6422005 Lamb Island

Dear Terrance Horan:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, June 16, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

The enclosed Chain of custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.

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Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on the report as follows: BM/E86048, ESC/E87487, KNL/E84025, SL/E8409.

A Statement of Qualifiers are available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kacia Baldwin
kbaldwin@jupiterlabs.com

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Jupiter Environmental Laboratories, Inc.

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Phone: (561)575-0030

Fax: (561)575-4118

SAMPLE SUMMARY

Project: 513661

Project ID: W6422005 Lamb Island

Lab ID	Sample ID	Matrix	Date Collected	Date Received
513661001	sw-3	Aqueous Liquid	6/15/2005 10:30	6/16/2005 16:26
513661002	sw-3 (dup)	Aqueous Liquid	6/15/2005 10:30	6/16/2005 16:26
513661003	SW-5	Aqueous Liquid	6/15/2005 11:07	6/16/2005 16:26
513661004	SW-1	Aqueous Liquid	6/15/2005 11:30	6/16/2005 16:26
513661005	SW-2	Aqueous Liquid	6/15/2005 11:58	6/16/2005 16:26

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Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Project: 513661

Project ID: W6422005 Lamb Island

Lab ID	Sample ID	Method	Analytes Reported
513661001	sw-3	EPA 365.2	2
513661002	sw-3 (dup)	EPA 365.2	2
513661003	SW-5	EPA 365.2	2
513661004	SW-1	EPA 365.2	2
513661005	SW-2	EPA 365.2	2

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661001	Date Collected:	6/15/2005 10:30	Matrix:	Aqueous Liquid
Sample ID:	sw-3	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	4.5 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.8 mg/L	0.12	5	6/17/2005	ESC
-----------------	----------	------	---	-----------	-----

Date: 07/14/2005

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661002	Date Collected:	6/15/2005 10:30	Matrix:	Aqueous Liquid
Sample ID:	sw-3 (dup)	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	2.4 mg/L	0.10	1	7/13/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	1.8 mg/L	0.12	5	6/17/2005	ESC
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Date: 07/14/2005

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ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661003	Date Collected:	6/15/2005 11:07	Matrix:	Aqueous Liquid
Sample ID:	SW-5	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	3.0 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.7 mg/L	0.12	5	6/17/2005	ESC
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Date: 07/14/2005

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Fax: (561)575-4118

ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661004	Date Collected:	6/15/2005 11:30	Matrix:	Aqueous Liquid
Sample ID:	SW-1	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	3.1	mg/L	0.10	1			6/30/2005	ESC	7723-14-0		
------------	-----	------	------	---	--	--	-----------	-----	-----------	--	--

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	2.8	mg/L	0.12	5			6/17/2005	ESC			
-----------------	-----	------	------	---	--	--	-----------	-----	--	--	--

Date: 07/14/2005

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Phone: (561)575-0030

Fax: (561)575-4118

ANALYTICAL RESULTS

Project: 513661

Project ID: W6422005 Lamb Island

Solid results are reported on a dry weight basis.

Lab ID:	513661005	Date Collected:	6/15/2005 11:58	Matrix:	Aqueous Liquid
Sample ID:	SW-2	Date Received:	6/16/2005 16:26		

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	----	----------	----	----------	----	---------	------	--------

General Chemistry

Phosphorus by EPA 365.2 [REF] (W) List

Phosphorus	1.3 mg/L	0.10	1	6/30/2005	ESC	7723-14-0
------------	----------	------	---	-----------	-----	-----------

Ortho Phosphate, EPA 365.2 [REF] (W) List

Ortho Phosphate	0.96 mg/L	0.12	5	6/17/2005	ESC
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Date: 07/14/2005

Page 8 of 8

REPORT OF LABORATORY ANALYSIS

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Palm Beach Environmental
Laboratories, Inc.

Enclosed is the laboratory report for your project. All results meet the requirements of the NELAC standards.

Please note the following:

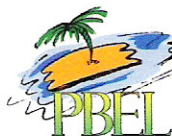
- The samples were received as stated on the chain of custody, correctly labeled and at the proper temperature unless otherwise noted. The results contained in this report relate only to the items tested or to the samples as received by the laboratory.
- This report may not be reproduced except in full, without the written approval of the laboratory.
- Results for all solid matrices are reported in dry weight unless otherwise noted.
- Results for all liquid matrices are analyzed as received in the laboratory unless otherwise noted.
- Samples are disposed of within 30 days of their receipt by the laboratory.
- A statement of Qualifiers is available upon request.
- Certain analyses are subcontracted to outside NELAC certified laboratories and are designated on your report.
- Precision & Accuracy will be provided when clients require a measure of estimated uncertainty.
- The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary
- Report; Preliminary Data should not be used for regular purposes. Authorized Signature(s) is provided on final reports only.

Please contact me if you have any questions or concerns regarding this report.

Sincerely,

Pamela Shore
QA Officer

EPA # FL01227
HRS # E86957
SFWMD # 48141
PBC # VC0000018083



Palm Beach Environmental
Laboratories, Inc.

Client # 107
Client Name: HSA Engineers & Scientists
Address: 1486-A Skees Road
West Palm Beach, FL 33411
Attention: Terry Horan

Sample Description: COC# 1530
Project#: W6422005
Project: Lamb Island
Matrix: Water

Page 1 of 5
Date: 07/06/05
Log # 1027-01

Label: SW-3
Date Sampled: 06/28/05 09:48
Date Received: 06/29/05 08:15
Collected By: Client

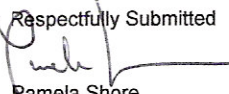
Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	1.7	mg/l	365.4	1	0.015	7/6/2005	7/6/2005	EL

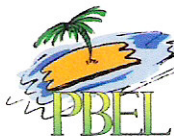
Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	1.3	mg/l	365.1	1	0.064	6/30/2005	6/30/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted


Pamela Shore
Quality Assurance Officer



Palm Beach Environmental
Laboratories, Inc.

Client # 107
Client Name: HSA Engineers & Scientists
Address: 1486-A Skees Road
West Palm Beach, FL 33411
Attention: Terry Horan

Sample Description: COC# 1530
Project#: W6422005
Project: Lamb Island
Matrix: Water

Page 2 of 5
Date: 07/06/05
Log # 1027-02

Label: SW-5
Date Sampled: 06/28/05 10:39
Date Received: 06/29/05 08:15
Collected By: Client

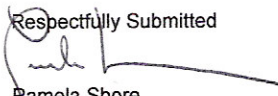
Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	3.0	mg/l	365.4	1	0.015	7/6/2005	7/6/2005	EL

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	2.9	mg/l	365.1	1	0.064	6/30/2005	6/30/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted


Ramela Shore
Quality Assurance Officer



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Sample Description: COC# 1530
Project#: W6422005
Project: Lamb Island
Matrix: Water

Page 3 of 5
Date: 07/06/05
Log # 1027-03

Label: SW-5 DUP
Date Sampled: 06/28/05 10:42
Date Received: 06/29/05 08:15
Collected By: Client

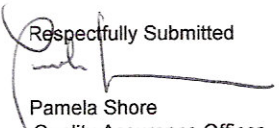
Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	3.0	mg/l	365.4	1	0.015	7/6/2005	7/6/2005	EL

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	2.9	mg/l	365.1	1	0.064	6/30/2005	6/30/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted


Pamela Shore
Quality Assurance Officer



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Client # 107
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West Palm Beach, FL 33411
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Sample Description: COC# 1530
Project#: W6422005
Project: Lamb Island
Matrix: Water

Page 4 of 5
Date: 07/06/05
Log # 1027-04

Label: SW-1
Date Sampled: 06/28/05 11:26
Date Received: 06/29/05 08:15
Collected By: Client

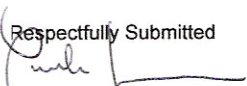
Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	3.5	mg/l	365.4	1	0.015	7/6/2005	7/6/2005	EL

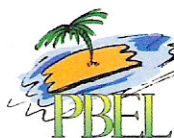
Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	3.5	mg/l	365.1	1	0.064	6/30/2005	6/30/2005	EL

U = Below Laboratory Detection Limit

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EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted


Pamela Shore
Quality Assurance Officer



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West Palm Beach, FL 33411
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Sample Description: COC# 1530
Project#: W6422005
Project: Lamb Island
Matrix: Water

Page 5 of 5
Date: 07/06/05
Log # 1027-05

Label: SW-2
Date Sampled: 06/28/05 12:21
Date Received: 06/29/05 08:15
Collected By: Client

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Total	1.2	mg/l	365.4	1	0.015	7/6/2005	7/6/2005	EL

Parameter	Results	Units	Method	Dilution Factor	Detection Limit	Extraction Date	Analysis Date	Analyst
Phosphorus Ortho	0.93	mg/l	365.1	1	0.064	6/30/2005	6/30/2005	EL

U = Below Laboratory Detection Limit

All Analysis were performed using EPA, ASTM, USGS or Standard Methods
EPA# FL01227 HRS# E86957
NELAC Certified

Respectfully Submitted

Pamela Shore
Quality Assurance Officer

APPENDIX B

RON

3/4/05

0959

SW-3

Temp-58.88 DO-3.42 ORP-111.4
Cond-0.247 PH-5.58

Collected sample for TP + OPO (No Flow) @ 1049

SW-4

No sample too dry

SW-~~8~~5

No sample (DRY)

SW-1

Temp-59.63 DO-2.50 ORP-85.8
Cond-0.352 PH-6.45

Collected sample for TP + OPO @ 1129
(No Flow)

3/4/05

RON

Collected FCEB sample @ 1140

SW-~~2~~

PH-6.96 COND-0.505 ORP-67.9

TEMP-64.18 DO-3.12

Collected sample for TP+OPO @ 1204
(NO Flow)

RON

Sunny + Hot

5/16/05

SW-3

~~DO~~ ^{*NOTEX} probe not working

Temp - 71.50 PH - 5.22

Cond - 0.215 ORP - 68.0

Noticed Sampling location choked out
with ALGAE

Collected sample @ 1126 for TP + OPO
No flow

EB collected @ 1133 for TP + OPO

SW-4 Unable to sample (too dry)

SW-5 Unable to sample (too dry)

SW-1

Temp - 77.88

PH - 6.66

Cond - 0.445

ORP - 34.6

Collected sample @ 1204 for TP + OPO
No flow

Ron

5/16/05

SW-6

TEMP - 80.25

PH - 7.83

COND - 1.042

ORP - 39.3

Collected sample @ 1230 for TP & OPD
plus SW-6 duplicate

GW-1

Start purge @ 1241 (~~took~~ ^{Ground Water} notes on Sampling Log)
collected sample @ 1300 for TP & T. Alum.

SW-2 Unable to sample (too dry)

Sunny
Hot

RON

6/8/05

Lamb Island Monitoring Plan

SW-3 STAFF READING 38.26

TEMP - 77.50 DO - 8.58^{mg}_L ORP - -199.4

Cond - .381 PH - 6.59

collected sample @ 11:38 *NOTE* RAN out
of filters (little flow) (small LEAK
between boards)

SW-4 TOO Flooded couldn't
get out there

SW-5 STAFF READING 38.02

1/4" OVERFLOW OVER boards

TEMP - 88.93 DO - 5.56^{mg}_L ORP - 43.7

Cond. - .094 PH - 6.43

~~R.P. 1205~~ Collected sample @ 1205
(good flow)

Took Photos of All Standing
WATERS

SUNNY
HOT

RON

6/8/05

CONTINUE

SW-1 STAFF READING 41.5

Temp - 78.59 DO - $8.25 \frac{\text{mg}}{\text{L}}$ ORP - 142.8

Cond - .131 PH - 5.11

Collected Sample @ 1230 (NO flow)

SW-2 (NO flow) $7.96 \frac{\text{mg}}{\text{L}}$

Temp - 79.51 DO - ~~6.28~~ R.D. ORP - -135.1

Cond - .395 PH - 6.28

Collected Sample @ 1300

Temp - 85.83

Cond - .114

Temp - 85.83

Water is very even with no flow

Slight flow on the other side

Water looks like ice (color)

SW-1 staff reading 41.5

Temp - 82.52 DO - 10.00

Cond - .178 PH - 5.99

Collected Sample @ 1630

(NO flow)

SUNNY

RON

6/15/05

Lamb Island Monitoring Plan

SW-3 staff reading 38.2

Temp - 79.63 DO - 7.89 $\frac{mg}{L}$ ORP - 34.8

Cond - .190 PH - 6.13

Collected sample @ 1030 (No flow)

SW-4 UNABLE to sample (flooded)

SW-5 staff reading 37.9

Temp - 85.83 DO - 6.23 $\frac{mg}{L}$ ORP - 12.2

Cond - .114 PH - 6.30

Collected sample @ 1107

WATER level EVEN with boards (NO overflow)

Slight flow on the other side

Note WATER looks like ICE TEA (color)

SW-1 staff reading 41.5

Temp - 82.52 DO - 7.07 $\frac{mg}{L}$ ORP - 16.3

Cond - .179

PH - 5.99

Collected sample @ 1130

(No flow)

HOT

6/15/05

RON
CONTINUE

SW-2

Temp-88.80

DO-5.59 $\frac{mg}{L}$

ORP-130

Cond-.457

PH-6.86

Collected Sample @ 1158

(NO flow)

SUNNY

6/28/05

Lamb Island Monitoring Plan

SW-3 STAFF READING 38.4

Temp - 25.59

DO - 2.06 $\frac{\text{mg}}{\text{L}}$

ORP - 26.7

Cond - .221

PH - 5.85

Collected sample @ 0948 (NO flow)

Noticed a slight LEAK between boards

SW-4 UNABLE to sample completely
flooded

SW-5 STAFF READING 38.1

Temp - 29.03

DO - 2.64 $\frac{\text{mg}}{\text{L}}$

ORP - 31.6

Cond - .132

PH - 6.99

Collected sample @ 1039 (RAPID flow)

1" overflow (OVER top of boards.)

WATER COLOR LOOKS LIKE ICE TEA.

cloudy

6/28/05

CONTINUE

SW-1 STAFF READING 41.9

Temp - 27.16 DO - .64 $\frac{mg}{L}$ ORP - 0.2

Cond - .177 PH - 6.47

Collected Sample @ 1126 (NO flow)
lots of TALAPIA (fish)

SW-2

Temp - 25.77 DO - 1.13 $\frac{mg}{L}$ ORP - -132.7

Cond - .420 PH - 6.89

Collected Sample @ 1221 (NO flow)